

ABSTRAK
PROFIL KEMAMPUAN KOGNITIF DAN AKTIVITAS BELAJAR SISWA PADA
KEGIATAN PRAKTIKUM KLASIFIKASI TUMBUHAN BERBIJI
MENGGUNAKAN PENDEKATAN FENETIK

Penelitian ini bertujuan untuk melihat profil kemampuan kognitif dan aktivitas belajar siswa pada kegiatan klasifikasi tumbuhan berbiji dengan menggunakan pendekatan fenetik serta respon siswa terhadap pembelajaran fenetik. Penelitian ini dilakukan terhadap 35 siswa kelas X pada SMA negeri di Bandung. Kemampuan kognitif berupa tes berisi 15 butir soal pilihan ganda dimana 10 soal merupakan soal tumbuhan berbiji dan 5 soal merupakan soal fenetik. Tes dilakukan setelah pembelajaran menggunakan pendekatan fenetik diberikan. Aktivitas belajar siswa diungkap dengan menggunakan lembar observasi. Angket pembelajaran diberikan untuk mengetahui respon siswa terhadap pembelajaran fenetik. Wawancara juga dilakukan untuk memperkuat respon siswa terhadap kemampuan kognitif dan aktivitas belajar siswa saat pembelajaran klasifikasi menggunakan fenetik. Hasil analisis menunjukkan bahwa rerata persentase kemampuan kognitif siswa sebesar 81.37% dengan nilai maksimum sebesar 93 dan nilai minimum sebesar 60. 86% siswa mampu mencapai nilai diatas KKM. Rerata persentase per indikatornya dari urutan tertinggi ke terendah adalah indikator mengenai menentukan karakter, membedakan karakter, menjelaskan daur hidup, menggolongkan dan menerapkan prinsip klasifikasi. Aktivitas belajar yang paling mendominasi kemunculannya adalah aktivitas motorik dan yang paling rendah kemunculannya adalah aktivitas menggambar. Hasil uji korelasi menunjukkan bahwa semakin tinggi aktivitas belajar maka kemampuan kognitif siswa semakin meningkat. Hasil angket dan wawancara siswa memberikan respon positif terhadap penggunaan pendekatan fenetik dalam kegiatan praktikum klasifikasi tumbuhan berbiji.

Kata kunci: fenetik, klasifikasi, kemampuan kognitif, aktivitas belajar

ABSTRACT
PROFILE OF STUDENTS' COGNITIVE ABILITIES AND LEARNING
ACTIVITIES ON PRACTICAL SEED PLANTS CLASSIFICATION USING
PHENETIC APPROACH

The aim of this study was to reveal students' cognitive abilities and learning activities on the classification of seed plants using phenetic approach as well as the students' and response to phenetic learning. This study was conducted to 35 students of 10th grade senior high school student in Bandung. Students' cognitive abilities was a test that consist of 15 multiple choice questions which is 10 of it were seed plants questions and the 5 more were phenetic questions. Test was took place after learning using phenetic methods. Students' learning activities revealed by observation sheet. Questionnaire of learning to find out the students' responses of phenetic learning. An interview also conducted to confirm students' response with students' learning activities when learning classification of seed plants using phenetic. The analysis showed that students responded positively to the phenetic learning. The mean percentage of students' cognitive abilities was 81.37% with the highest score was 93 and the lowest was 60. 86% of the students been able to reach up from the minimum criteria of mastery learning. The average percentage per indicators from the highest to the lowest sequentially were indicator of character determination, character differentiation, life cycle explanation, and the implementation the principle of classification. The occurrence of students' learning activities are dominated by motoric activities and the lowest occurrence were drawing activities. The result of students' questionnaire and interview gave a positive response to the phenetic approach in practical seed plants classification.

Keywords: cognitive abilities, learning activities, phonetic approach, seed plant classification